

CLAIMS

- 1 1. A method for authenticating an external module comprising the steps of:
2 creating data K using two different schemes, at least one scheme being based
3 on the integrity of the module to be verified;
4 creating an authentication token for said module which produces K in both
5 schemes;
6 using K as created by one scheme to disrupt said module; and
7 using K as created by the other scheme to restore the module.
- 1 2. The method as defined in claim 1, wherein one or more of the schemes is based
2 on RSA encryption.
- 1 3. The method as defined in claim 1, wherein one or more of the schemes is based
2 on digital signets.
- 1 4. The method as defined in claim 1, further comprising the step of:
2 embedding a public component of one or more of the schemes in a verification
3 code of the application.
- 1 5. The method as defined in claim 1, further comprising the step of:
2 conveying private components of all schemes to a module authentication
3 authority.
- 1 6. The method as defined in claim 5, wherein the creating an authentication token
2 step is automated by providing developers of the external module access to a Web site
3 which allows them to submit the hash of their module and to retrieve the authentication
4 token.

EXPRESS MAIL LABEL NO.: EL563155585US

1 ~~13.~~ A method for secure authentication of external modules on an entity comprising
2 the steps of:
3 loading an external module into memory; and
4 beginning a STOMPing process by decrypting a number of pseudo-random bytes
5 that are part of an authentication token using a public security code of a public and
6 private component pair security code.

1 14. The method as defined in claim 13, wherein the public and private components of
2 the security code comprise security codes selected from a group of security codes of: a
3 signet pair and an RSA pair.

1 15. The method as defined in claim 13, further comprising the step of:
2 XORing the decrypted pseudo-random bytes with the external module making
3 the external module unusable.

1 16. The method as defined in claim 15, further comprising the step of:
2 performing a signet extrication process to generate extrication data by using the
3 hash of the external module to begin an UNSTOMPing process.

1 17. The method as defined in claim 16, further comprising the step of:
2 using the extrication data to generate another stream of pseudo-random bytes.

1 18. The method as defined in claim 17, further comprising the step of:
2 XORing the another stream of pseudo-random bytes with the unusable external
3 module thereby making the unusable external module usable in the event there has
4 been no illicit patching of the external module and maintaining the unusable external
5 module unusable in the event that the external module has been illicitly patched such
6 that an application or program that is accessing the module fails to operate.

- [illegible]

EXPRESS MAIL LABEL NO.: EL563155585US

1 21. A computer readable medium comprising instructions for secure authentication of
2 external modules on an entity comprising the instructions of:
3 loading an external module into memory; and
4 beginning a STOMPing process by decrypting a number of pseudo-random bytes
5 that are part of an authentication token using a public security code of a public and
6 private component pair security code.

1 22. The computer readable medium as defined in claim 21 wherein the public and
2 private components of the security code comprise security codes selected from a group
3 of security codes of: a signet pair and an RSA pair.

008000 4325360

